



SEQUENCE LISTING

<110> PUNNONEN, JUHA
WRIGHT, ANNE
SEMYONOV, ANDREY

<120> NOVEL CHIMERIC PROMOTERS

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<141> 2001-06-21

<150> 60/213,829

<151> 2000-06-23

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<170> PatentIn Ver. 2.1

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<223> Description of Artificial Sequence: Synthetic
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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<212> DNA

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<211> 1767

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<211> 1766

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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<223> Description of Artificial Sequence: Synthetic
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1715

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<211> 1767

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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aggtaactcc cgttgcgggt ctgttaacgg tggagggcag tgtagtctga gcagtactcg 1680
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1767

<210> 9

<211> 1689

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 9

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attgggtcat gtccaatacg accgccatgt tgacattgat tattgactag ttattaatag 240
taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
acggtaaata gcccgcctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgttc ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
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gactttccta cttggcagta catctacgta ttagtcatcg ctattacat ggtgatgcgg 600
ttttggcagt acaccaatgg gcgtggatag cggtttgact cacggggatt tccaagtctc 660
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gccgcacaag gccgtggcgg tgttgtgttc tgataagagt cagaggtaac tcccgttgcg 1560
gtgctgttaa cgggtggagg cagtgtagtc tgagcagtag tcgttgctgc cgcgcgcgcc 1620
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caccgtctt
1689

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<210> 10

<211> 1715

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 10

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atcaatattg gctattggcc attgcatacg ttgtatctat atcataatat gtacatttat 180
attggttcat gtccaatatg accgccatgc tgacattgat tattgactag ttattaatag 240
taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
acggtagatg gcccgcctgg ccgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgtcc ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
ttacggtaaa ctgcccactt ggcagtacat caagtgtatc atatgccaag tacgccccct 480
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gactttccta cttggcagta catctacgta ttagtcatcg ctattacat ggtgatgcgg 600
ttttggcagt acatcaatgg gcgtggatag cggtttgact cacggggatt tccaagtctc 660
caccctattg acgtcaatgg ggcgttccta tgacgcaaat gggcggtagg cgtgtacggg 720
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agagtcagag gtaactcccg ttgcggtgct gttaacggtg gagggcagtg tagtctgagc 1620
agtgtcgtt gctgccgcgc gcgccaccag acataatagc tgacagacta acaggctgtt 1680
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```

<210> 11

<211> 1757

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 11

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attggctcat gtccaatatg accgccatgc tgacattgat tattgactag ttattaacag 240
taatcaatta cggggctcatc agttcatagc ccataatatgg agttccgcgt tacataactt 300
acggtaaatg gcccgcctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgttc ccataagtaac gccaataggg actttccatt gacgtcgatg ggtggagtat 420
ttacggtaaa ctgcccactt ggcagtagac caagtgtatc atatgccaa g tccgccccct 480
attgacgtca atgacggtaa atggcccgc tggcattatg ccagtagac gacctacg 540
gactttccta ctggcagta catctacgta ttagtcacg ctgttaccat ggtgatgcgg 600
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caccctattg acgtcaatgg gagtttgttt tggcaccaaa atcaacggga ctttccaaaa 720
tgtcgtaata accccgcccc gttgacgcaa atgggcggtg ggcgtgtacg gtgggaggtc 780
tatataagca gagctcggtt agtgaaccgc cattctgcct ggggacgtcg gaggagcacc 840
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ggcagaagag gatgcaggca gctgagttgt tgtattctga taagagtcag aggttaactcc 1620
cgttgccggt ctgttaacgg tggagggcag tgtagtctga gcagtactcg ttgctgccgc 1680
gcgcgccacc aaacataata gctgacagac taacagactg ttcctttcca tgggtctttt 1740
ctgcagtcac cgtcctt 1757

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<210> 12
 <211> 1574
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

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 atcaatattg gctattggcc attgcatacg ttgtatctat atcataatat gtacatttat 180
 attggctcat gtccaacatt accgccatgt tgacattgat tattgactag ttattaatag 240
 taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
 acggtaaatg gcccgcctgg cattatgccc agtacatgac cttacgggac tttcctactt 360
 ggcagtacat ctacgtatta gtcacgcta ttaccatggg gatgcgggtt tggcagtaca 420
 ccaatgggagc tggatagcgg ttgactcac ggggatttcc aagctccac ccattgacg 480
 tcaatgggagc tttgttttgg caccaaaatc aacgggactt tccaaaatgt cgtaataacc 540
 ccgccccgtt gacgcaaatg ggcggtaggc gtgtacgggt ggaggtctat ataagcagag 600
 ctcgtttagt gaaccgtcag atcgccctga gacgccatcc acgtgtttt gacctccata 660
 gaagacaccg ggaccgatcc agcctccgcg gccgggaacg gtgcattgga acgcggatcc 720
 cccgtgccaa gagtgacgta agtaccgcct atagactcta taggcacacc ctttgggtc 780
 ttatgcatgc tatactgttt ttggcttggg gcctatacac ccccgcttcc ttatgctata 840
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 atgggggtccc atttattatt taaaaattca catatacaac aacgcgcgtc cccgtgccc 1080
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 cggtcatagg tcgctcggca gtccttgcct cctaacagtg gaggccagac ttaggcgcag 1260
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 agaagaagat gcaggcagct gagttgtgt attctgataa gagtcagagg taactcccgt 1440
 tgcggtgctg ttaacgggtg agggcagtg agtctgagca gtactcggtg ctgccgcgcg 1500
 cgccaccaga cataatagct gacagactaa cagactgttc ctttccatgg gtcttttctg 1560
 cagtcaccgt cctt 1574

<210> 13
 <211> 1765
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 13
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 attggctcat gtccaatatg accgccatgt tgacattgat tattgactag ttattaatag 240
 taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
 acggtagatg gcccgcctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
 acgtatgttc ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
 ttacggtaaa ctgcccactt ggcagtacat caagtgtatc atatgccaag tccgccccct 480
 attgacgtca atgacggtaa atggcccggc tggcattatg ccaggtacat gaccttacgg 540

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gactttccta cttggcagta catctacgta ttagtcacg ctattaccat ggtgatgcgg 600
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caccgccattg acgtcaatgg gagtttgct tggcaccaaa atcaacggga ctttccaaaa 720
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gtaactcccg ttgcggtgct gttaacggtg gagggcagtg tagtctgagc agtactcgtt 1680
gctgccgcgc gcgccaccag acataatagc tgacagacta acagactgtt cctttccatg 1740
ggtcttttct gcagtcaccg tcctt 1765

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<210> 14

<211> 1767

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 14

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atcaatattg gctattggcc attgcatacg ttgtatctat atcataatat gtacatttat 180
attggctcat gtccaatatg accgccatgt tgacattgat tattgactag ttattaatag 240
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acggtaaatg gccgccttgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgttc ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
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attgacgtca atgacggtaa atggcccgcc tggcattatg ccagtagact gaccttacgg 540
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caccgccattg acgtcaatgg gagtttgct tggcaccaaa atcaacggga ctttccaaaa 720
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cccattccct cagcggtcca tggctcgtc gcagctcctt gctcctaaca gtggaggcca 1440
gacttaggca cagcacaatg cccaccacca ccagtgtgcc gcacaaggcc gtggcggtag 1500

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ggatatgtgtc tgaaaatgag ctcgagatt gggctcgac cgctgacgca gatggaagac 1560
ttaaggcagc ggcagaagaa gatgcaggca gctgagttgt tgtattctga taagagtcag 1620
aggtagctcc cggtgcggtg ctgttaacgg tggagggcag tgtagtctga gcagtactcg 1680
ttgctgccgc gcgcgccacc agacataata gctgacagac taacagactg ttcctttcca 1740
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1767

<210> 15

<211> 1767

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 15

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attggctcat gtccaatatg accgccatgt tgacattgat tattgactag ttattaatag 240
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acggtaaatg gccgccttgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgttc ccataagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
ttacggtaaa ctgcccactt ggcagtagac caagtgtatc atatgccaag tccgccccct 480
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tgtcgtataa accccgcccc gttgacgcaa atgggcggta ggcgtgtacg gtgggagggtc 780
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aggtaactcc cggtgcggtg ctgttaacgg tggagggcaa tgtagtctga gcagtactcg 1680
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tgggtctttt ctgcagtcac cgtcctt

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1767

<210> 16

<211> 1767

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16

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attggctcat gtccaatatg accgccatgt tgacattgat tattgactag ttattaatag 240
taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
acggtagatg gcccgcctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
acgtatgttc ccatagtaac gccaataggg actttccatt gacgtcaatg ggtggagtat 420
ttacggtaaa ctgcccactt ggcagtacat caagtgtatc atatgccaag tccgccccct 480
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gactttccta cttggcagta catctacgta ttagtcatcg ctattaccat ggtgatgagg 600
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tgggtctttt ctgcagtcac cgtcctt 1767

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<210> 17

<211> 1757

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17

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caccgccattg accgtcaatgg gagtttgatt tggcaccaaa gtcaacggga ctttccaaaa 720
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cgttgcgggtg ctgttaacgg tggagggcgg tgtagtctga gcagtactcg ttgctgccgc 1680
gcgcgccacc agacataata gctgacagac taacagactg ttccctttcca tgggtctttt 1740
ctgcagtcac cgtcctt

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1757

<210> 18

<211> 1767

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 18

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1767

<210> 19
 <211> 1767
 <212> DNA
 <213> Homo sapiens

<400> 19
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 atcaatatgg gctattggcc attgcatacg ttgtatccat atcataatat gtacatttat 180
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 taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
 acggtaaatg gccgcctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
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 tgggtctttt ctgcagtcac cgtcctt 1767

<210> 20
 <211> 1665
 <212> DNA
 <213> Homo sapiens

<400> 20
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 taatcaatta cggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
 acggtaaatg gccgcctcg tgaccgccc aacgaccccc ccattgacg tcaataatga 360
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 caccctcatt acgtcaatgg gagtttgttt tggcaccaaa atcaacggga ctttccaaaa 720
 tgtcgtaata accccgcccc gttgacgcaa atgggcggta ggcgtgtacg gtgggagggtc 780

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aaggcagcgg cagaagaaga tgcaggcagc tgagtaccag acataatagc tgacagacta 1620
acagactgtt cttttccatg ggtcttttct gcagtcaccg tcctt 1665

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<210> 21

<211> 1767

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus
sequence

<400> 21

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taatcaatta cgggggtcatt agttcatagc ccatatatgg agttccgcgt tacataactt 300
acggtaaatg gccgcgctgg ctgaccgccc aacgaccccc gccattgac gtcaataatg 360
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tgggtctttt ctgcagtcac cgtcctt 1767

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<210> 22
 <211> 821
 <212> DNA
 <213> *Macaca* sp.

<400> 22
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 aggttcaata gaatggccaa taagccaata tgccattggc caacatggca atggggccagt 180
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 gccatattgg cttatgtcca ttaccaatac catatatggg tcttcctata tacgtcatag 300
 gtaccgcca ttgacgtaat atggatacgc ctccattgac gtcaatggga gggattaata 360
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 acctccatt gacgtcaatg ggggtggcca ttgcccattc ccacgcccc tattgacgtc 480
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 ggaaccgcca ttctgcctgg ggacgtcgga ggagcaccat agaaggtagc ggggaccgat 780
 ccagcctcca tagccgggaa gggtcgattg gaacgcgat a 821

<210> 23
 <211> 738
 <212> DNA
 <213> *Cercopithecus* sp.

<400> 23
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 caagggtaca ttggcaggta ctccattga cgtcaatggc ggtaaatggc ccggcatggc 600
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 ccattgacgt aaatggcggt aggcgtgcct aatgggaggt ctatataagc aatgctcgtt 720
 tagggaaccg ccattctg 738

<210> 24
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 24
 atagcactga gacctatcga attcatatga ggctatatcg ccgata

<210> 25
 <211> 45

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 25
 tcagtgaacg cttatctagg atccaaggac ggtgactgca gaaaa 45

<210> 26
 <211> 50
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 26
 atagcactga gacctatcga attcaatggc gacttggcat tgagccaatt 50

<210> 27
 <211> 45
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 27
 atagcactga gacctatcga attcacttgg cacgggtgcc agttt 45

<210> 28
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 28
 tcagtgaacg cttatctagg atcctatccg cgttccaatg caccctt 47

<210> 29
 <211> 46
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 29
 tcagtgaacg cttatctagg atcctatccg cattccaatg caccgt 46

<210> 30
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 30
 atagcactga gacctatcac cggttggtcc tgtagtttgc taacaca 47

<210> 31
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 31
 tcagtgaacg cttatctaac cggttcgagg cagcttggat ctgtaacg 48

<210> 32
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 32
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<210> 33
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 33
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<210> 34
 <211> 47
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 34
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<210> 35
 <211> 47
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 35
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<210> 36
 <211> 33
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 36
 aagctggcta gcatgtcggt tactttgacc aac 33

<210> 37
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Primer

 <400> 37
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<210> 38
 <211> 11
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 38
 gacgccggag g 11

<210> 39
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 39

gacgtcggag

10

<210> 40

<211> 11

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